

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P947287

Luminaire Tested: **GALN-SB2C-940-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947287
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-940-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11366 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

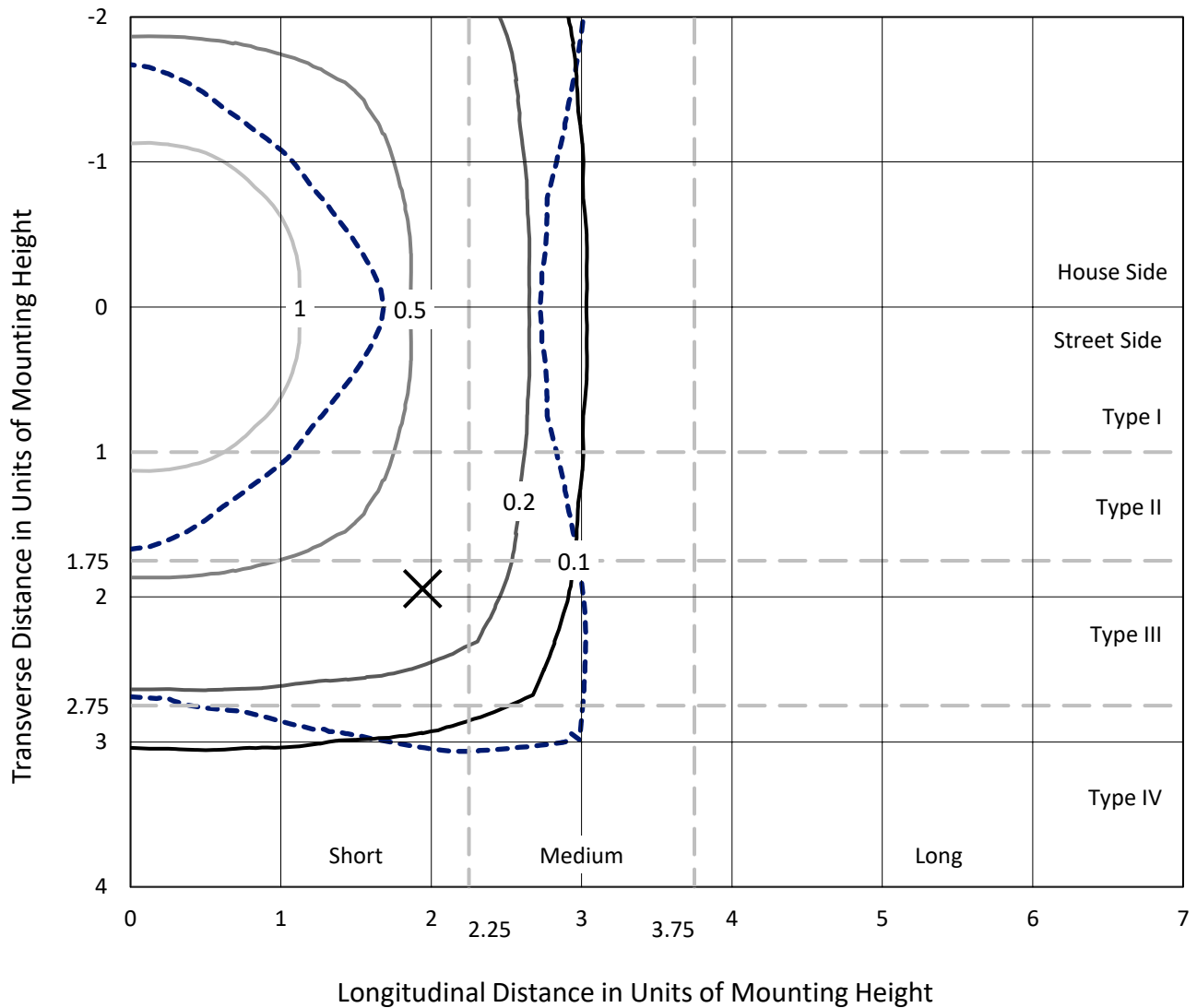
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

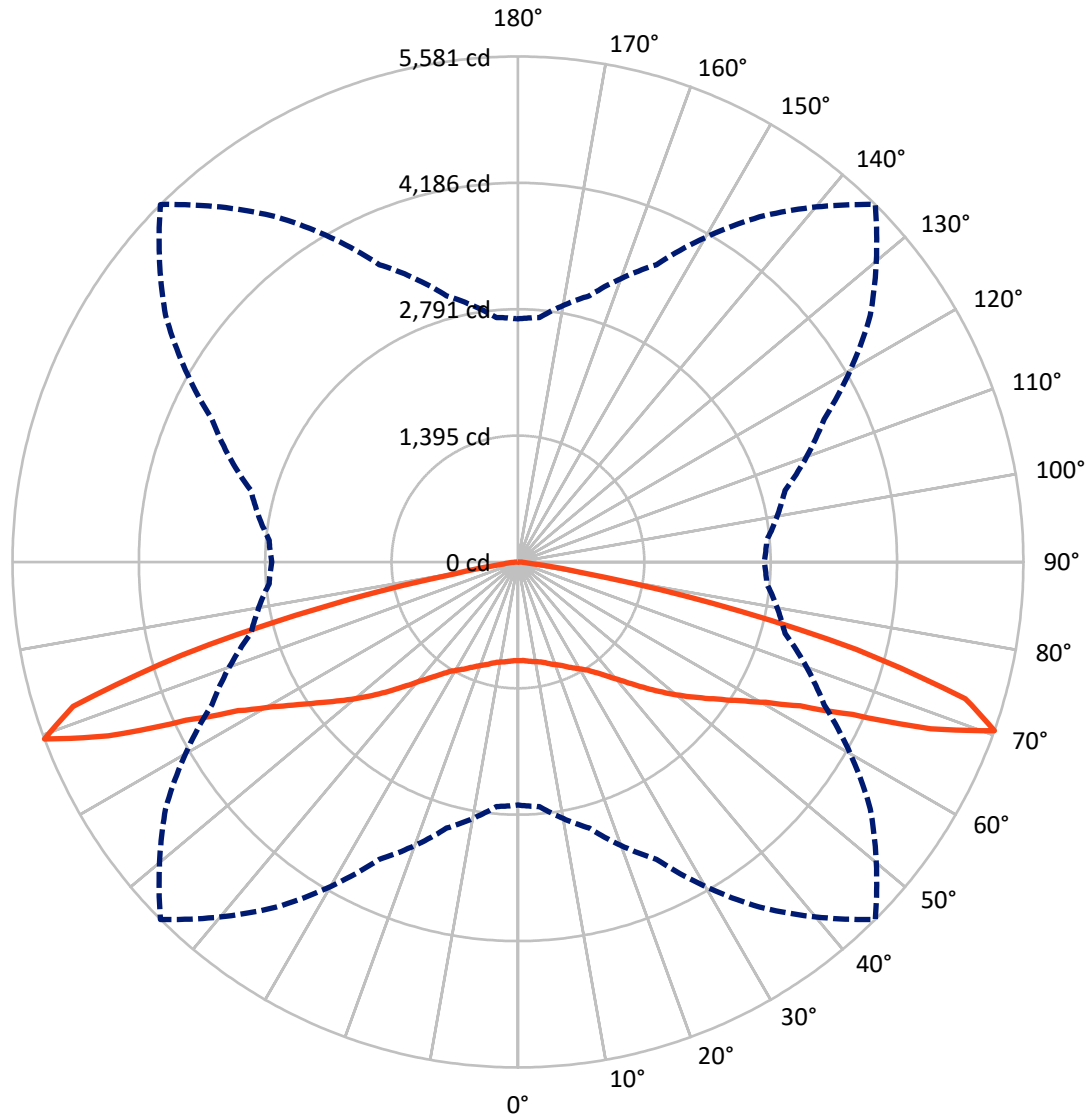
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5683.0	0.0	5683.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5683.0	0.0	5683.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	11366.0	0.0	11366.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.8	0.9
10°-20°	328.0	2.9
20°-30°	586.2	5.2
30°-40°	950.1	8.4
40°-50°	1547.6	13.6
50°-60°	2359.6	20.8
60°-70°	3510.3	30.9
70°-80°	1913.3	16.8
80°-90°	65.2	0.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	11366.0	100.0
0°-180°	11366.0	100.0

Coefficient of Utilization



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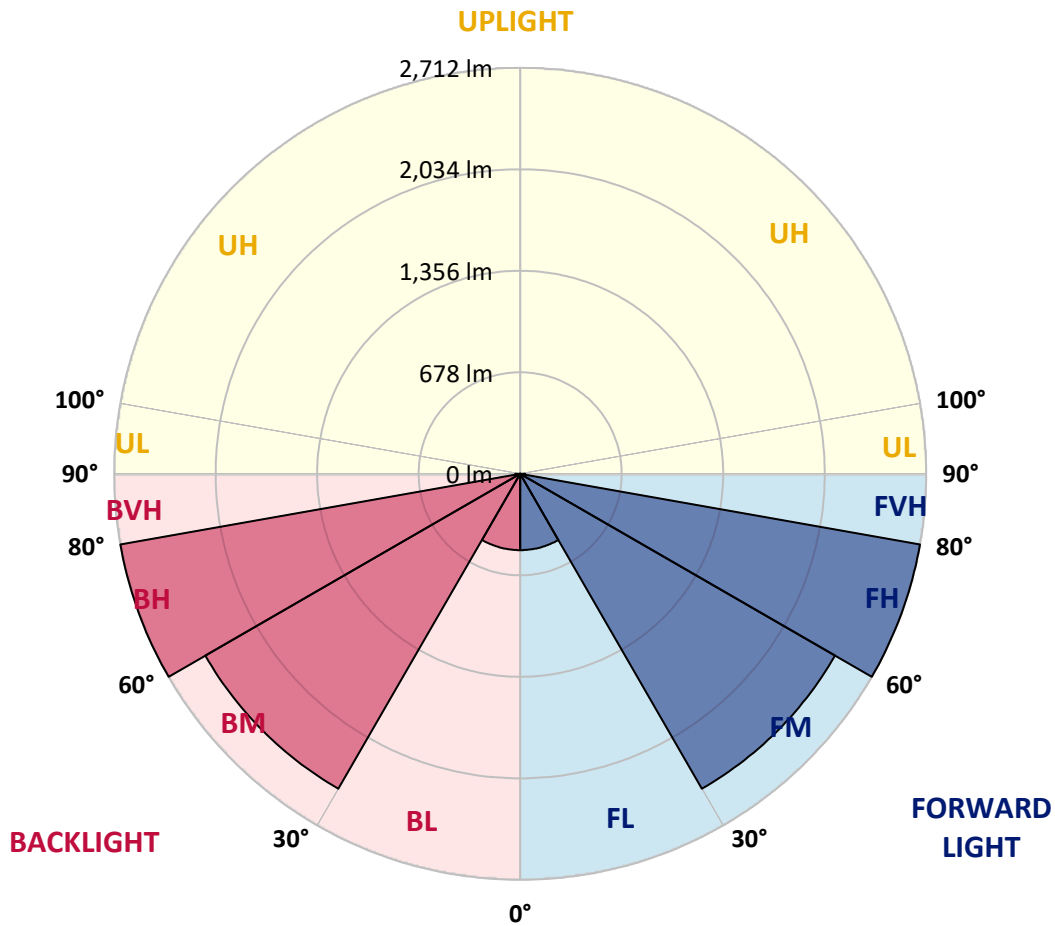
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	510.0	4.5			
FM (30°-60°)	2428.7	21.4			
FH (60°-80°)	2711.8	23.9			G2/5000
FVH (80°-90°)	32.6	0.3			G1/100
BL (0°-30°)	510.0	4.5	B2/1000		
BM (30°-60°)	2428.7	21.4	B2/2500		
BH (60°-80°)	2711.8	23.9	B4/5000		G2/5000
BVH (80°-90°)	32.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7	1088.7
2.5°	1093.9	1095.0	1092.7	1091.6	1090.5	1088.7	1089.3	1092.2	1094.5	1093.9
5°	1103.0	1104.2	1102.4	1101.9	1099.6	1099.0	1099.0	1101.9	1103.6	1102.4
7.5°	1113.3	1115.0	1112.1	1111.6	1110.4	1109.3	1108.7	1111.6	1113.3	1113.3
10°	1123.0	1124.7	1122.4	1120.7	1119.6	1119.6	1118.4	1120.7	1123.6	1123.0
12.5°	1133.3	1134.4	1132.1	1131.0	1131.0	1132.7	1131.0	1132.1	1134.4	1133.3
15°	1145.8	1146.4	1145.8	1147.5	1150.4	1156.1	1150.9	1149.8	1150.9	1148.1
17.5°	1162.9	1164.1	1166.3	1170.3	1174.3	1184.6	1175.5	1172.6	1172.6	1166.9
20°	1184.0	1185.8	1189.2	1196.0	1201.2	1210.9	1201.7	1197.7	1196.0	1188.6
22.5°	1206.3	1209.1	1214.3	1223.4	1232.5	1241.7	1232.5	1225.7	1220.6	1210.9
25°	1232.0	1235.4	1243.4	1258.2	1270.8	1283.9	1273.1	1259.4	1249.1	1235.4
27.5°	1268.5	1272.5	1282.2	1300.4	1316.4	1327.8	1317.6	1299.9	1285.6	1269.1
30°	1319.8	1323.8	1335.3	1354.7	1365.5	1372.9	1366.1	1352.4	1335.3	1316.4
32.5°	1386.0	1391.2	1403.7	1422.0	1424.3	1425.4	1423.1	1416.3	1403.7	1380.9
35°	1469.9	1475.6	1489.9	1504.7	1502.4	1504.7	1501.3	1499.0	1489.9	1463.6
37.5°	1572.6	1579.5	1594.3	1605.7	1600.0	1597.2	1597.7	1598.3	1593.2	1564.1
40°	1691.9	1701.0	1711.9	1723.8	1714.1	1705.6	1711.3	1715.9	1711.3	1681.6
42.5°	1814.6	1827.7	1839.1	1856.2	1848.2	1837.4	1845.4	1850.5	1840.8	1808.9
45°	1951.0	1963.5	1978.3	2004.0	1998.3	1986.9	1998.3	1999.5	1982.9	1945.2
47.5°	2091.9	2105.0	2127.3	2161.5	2159.2	2146.7	2161.5	2153.5	2132.4	2087.3
50°	2225.4	2243.7	2277.9	2325.9	2330.4	2315.0	2335.0	2319.6	2284.2	2227.7
52.5°	2351.0	2370.4	2424.6	2489.6	2506.2	2486.2	2513.0	2486.2	2433.1	2360.7
55°	2482.8	2504.5	2568.9	2654.0	2687.1	2672.2	2697.3	2656.8	2581.5	2493.6
57.5°	2638.0	2651.1	2728.1	2829.1	2885.1	2888.5	2899.9	2831.4	2740.1	2640.3
60°	2806.3	2824.6	2908.5	3029.4	3117.9	3146.4	3134.4	3032.9	2926.7	2812.0
62.5°	3022.0	3042.0	3142.4	3287.3	3427.2	3497.9	3451.1	3303.9	3172.7	3035.1
65°	3200.6	3222.9	3404.3	3662.8	3917.3	4059.4	3941.9	3670.8	3434.6	3240.6
67.5°	3071.1	3098.5	3383.2	3858.0	4490.8	4914.8	4512.5	3916.2	3453.4	3190.3
70°	2684.2	2709.9	3042.0	3622.3	4652.3	5581.2	4749.3	3729.0	3052.8	2758.4
72.5°	1782.0	1864.8	2200.9	2897.0	4154.1	5164.7	4195.2	2838.3	2041.7	1778.1
75°	591.2	657.4	886.7	1501.9	2782.3	3862.5	2648.8	1329.0	702.4	505.6
77.5°	148.9	171.8	236.8	429.7	1109.9	2199.2	999.2	350.9	191.2	133.5
80°	72.5	79.9	114.1	143.2	277.9	699.0	260.8	134.7	90.2	69.6
82.5°	39.9	40.5	64.5	81.0	103.3	180.9	107.3	78.7	51.9	42.2
85°	24.5	24.0	34.2	43.4	43.4	64.5	51.4	43.4	29.7	26.2
87.5°	9.7	9.7	12.6	13.7	12.0	16.5	13.1	14.3	11.4	10.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1088.7
1094.5
1103.0
1113.3
1123.0
1132.7
1148.1
1166.9
1188.6
1210.3
1234.8
1268.5
1316.4
1381.5
1463.6
1564.1
1681.6
1811.2
1949.2
2084.5
2226.6
2353.8
2481.6
2626.6
2793.8
3011.2
3208.6
3151.0
2719.0
1720.4
478.2
119.3
63.9
42.2
27.4
11.4
0.0

OF REPORT)